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		DB=PGPB,USPT; PLUR=YES; OP=OR	
☐	L9	(print$ and data and (translat$ or transform$ or convert$ or reformat$) and spool$ and (modif$ or chang$ or edit$ or updat$) and template$1).clm.	0
☐	L8	(print$ and data and device$1 and (translat$ or transform$ or convert$ or reformat$) and spool$ and (modif$ or chang$ or edit$ or updat$) and template$1).clm.	0
☐	L7	(print$ and data and device$1 and convert$ and spool$ and edit$ and template$1).clm.	0
☐	L6	((print adj data) and (printing adj device$1) and convert$ and spool$ and edit$).clm.	0
☐	L5	((print adj data) and (printing adj device$1) and convert$ and spool$ and edit$ and invers$).clm.	0
☐	L4	((print adj data) and (printing adj device$1) and convert$ and (spooled adj print adj data) and edit$ and invers$).clm	0
☐	L3	((print adj data) and (printing adj device$1) and convert$ and (spooled adj print adj data) and edit$ and (inversely adj convert$)).clm.	0
☐	L2	((print adj data) and (printing adj device$1) and converting and (spooled adj print adj data) and editing and (inversely adj convert$)).clm.	0
☐	L1	(previewing and (print adj data) and (printing adj device$1) and converting and (spooled adj print adj data) and editing and (inversely adj convert$)).clm.	0

END OF SEARCH HISTORY

Intergerence Search

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		DB=PGPB,USPT; PLUR=YES; OP=OR	
☐	L44	L31 and (template$1 same edit$ same display$)	1
		DB=USPT,PGPB; PLUR=YES; OP=OR	
☐	L43	('5788285'| '6000728'| '6130947'| '6139066'| '6161869'| '6343745'| '6369919'| '6538757'| '6692030'| '6729655'| '6752430'| '6865001'| '20020185857'| '20030193184')![pn]	14
☐	L42	('4627707'| '5768483'| '6120197'| '6130965'| '6476930'| '6549302')![pn]	6
☐	L41	('5045967'| '5699494'| '6108008'| '6134568'| '6614454'| '6615346')![pn]	6
☐	L40	('4648047'| '4763167'| '5006890'| '5018080'| '5732197'| '5802259'| '5839033'| '5847848'| '5864634'| '5923013'| '5995985'| '6094552'| '6101513'| '6141120'| '6181436'| '6285461'| '6411400'| '6417931'| '6580521'| '6606669'| '6616359'| '6661530'| '6671066'| '6678066'| '6734986'| '6788427'| '6804018'| '6809833'| '6842262'| '6847466'| '20020052897'| '20020171871')![pn]	32
		DB=USPT; PLUR=YES; OP=OR	
☐	L39	(5,788,285 6,000,728).pn.	2
		DB=USPT,PGPB; PLUR=YES; OP=OR	
☐	L38	('5732197'| '5768488'| '5839033'| '5995721'| '6417931'| '6509977'| '7046385')![pn]	7
		DB=USPT; PLUR=YES; OP=OR	
☐	L37	L36 and ((edit$ or alter$ or manipulat$) near2 display$)	11
☐	L36	(convert$ or convers$) with (spool near4 code)	57
☐	L35	6580521.pn.	1
		DB=USOC; PLUR=YES; OP=OR	
☐	L34	6580521.pn.	0
		DB=PGPB,USPT; PLUR=YES; OP=OR	
☐	L33	L31 and (spool$ same (print$2 near2 data) same memory same (convert$ or convers$ or edit$))	5
☐	L32	L31 and (spool$ with (print$2 near2 data) with memory)	6
☐	L31	(obtain$ near2 data) with (printing adj device$1)	157
		DB=USPT; PLUR=YES; OP=OR	
☐	L30	(imposition near5 (raster adj image))	6
☐	L29	(add$2 adj value adj information) same (printing adj device)	1
☐	L28	L27 and template$1	2
☐	L27	(despool$2 or (inverse$ near4 spool)) and ((edit$ or alter$ or manipulat$) near2 display$)	15
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR	
☐	L26	L25 and ((edit$ or alter$ or manipulat$) near2 display$)	13
☐	L25	L23 and (edit$ near5 (display$ or print$))	31
☐	L24	L23 and (edit$ with print$)	30

☐	L23	L22 and L19	32
☐	L22	L21 and (despool$2 or (inverse$ near4 spool))	136
☐	L21	spool$ with (print$ near4 code)	308
☐	L20	L19 and ((convert$ or convers$ or tranform$) near2 data) with (request$ near2 input$)	0
☐	L19	(preview$ near2 data) with (print$2 or display$)	959
☐	L18	L16 and (add$ near2 information) same template$1 same print$	0
☐	L17	L16 and (template$ same edit$ same (display$ or present$ or render$) near2 data)	0
☐	L16	(spool$ near3 data) same (print$ near device$1)	218
	DB=USPT; PLUR=YES; OP=OR		
☐	L15	L3 and (template$ same edit$ same (display$ or present$ or render$) near2 data)	1
☐	L14	L13 and (conver$ same (display$ or present$ or render$) same print$)	28
☐	L13	(spool$ near3 data) same (print$ near device$1)	54
☐	L12	L11 and L10	35
☐	L11	L7 or L8	55369
☐	L10	L9 and L4	398
☐	L9	358/(1.15, 1.13, 1.16).ccls.	164553
☐	L8	715/(520,530).ccls.	55307
☐	L7	(715/527).ccls.	99
☐	L6	L5 and spool$	17
☐	L5	L4 and (spool$ near3 data) same (print$ near device$1)	17
☐	L4	(print$ near2 data) with ((Page adj Description adj Language) or PDF)	528
☐	L3	(print$ near2 data) same ((Page adj Description adj Language) or PDF)	869
☐	L2	5634091.pn.	1
☐	L1	5634091.pn.	1

END OF SEARCH HISTORY

Terms used: **watermark printing control** Found **32,746** of **206,658**

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21 How watermarking adds value to digital content
John M. Acken
July 1998 **Communications of the ACM**, Volume 41 Issue 7
Publisher: ACM Press
Full text available: pdf(273.94 KB) Additional Information: full citation, references, citings, index terms, review

22 Technical trials and legal tribulations
Scott Craver, Boon-Lock Yeo, Minerva Yeung
July 1998 **Communications of the ACM**, Volume 41 Issue 7
Publisher: ACM Press
Full text available: pdf(641.01 KB) Additional Information: full citation, references, citings, index terms, review

23 In business today and tomorrow
Jian Zhao, Eckhard Koch, Chenghui Luo
July 1998 **Communications of the ACM**, Volume 41 Issue 7
Publisher: ACM Press
Full text available: pdf(527.15 KB) Additional Information: full citation, references, citings, index terms, review

24 Secure distribution of watermarked images for a digital library of ancient papers
Christian Rauber, Joe Ó Ruanaidh, Thierry Pun
July 1997 **Proceedings of the second ACM international conference on Digital libraries DL '97**
Publisher: ACM Press
Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

25 Information protection methods: Display-only file server: a solution against information theft due to insider attack
Yang Yu, Tzi-cker Chiueh
October 2004 **Proceedings of the 4th ACM workshop on Digital rights management DRM '04**
Publisher: ACM Press
Full text available: pdf(311.80 KB) Additional Information: full citation, abstract, references, index terms

Insider attack is one of the most serious cybersecurity threats to corporate America. Among all insider threats, information theft is considered the most damaging in terms of potential financial loss. Moreover, it is also especially difficult to detect and prevent, because in many cases the attacker has the proper authority to access the stolen information. According to the 2003 CSI/FBI Computer Crime and Security Survey, theft of proprietary information was the single largest category of los ...

Keywords: access, digital rights management, information theft, insider attack

26 Opportunities for watermarking standards
Fred Mintzer, Gordon W. Braudaway, Alan E. Bell
July 1998 **Communications of the ACM**, Volume 41 Issue 7

Publisher: ACM Press
Full text available: pdf(672.37 KB) Additional Information: full citation, references, citings, index terms, review

27 Emerging applications: DRM: doesn't really mean digital copyright management
L. Jean Camp
November 2002 **Proceedings of the 9th ACM conference on Computer and communications security CCS '02**
Publisher: ACM Press
Full text available: pdf(258.91 KB) Additional Information: full citation, abstract, references, citings, index terms

Copyright is a legal system embedded in a larger technological system. In order to examine the functions of copyright it is critical to examine the larger technological context of copyright: analog media and printed paper in particular. The copyright system includes both the explicit mechanisms implemented by law and the implicit mechanisms resulting from the technologically determinant features of paper and print. In order to prevent confusion between the legal, technical, and economic elements ...

Keywords: DRM, DeCSS, copyright, design for values, ethics, fair use, intellectual property, science and technology studies

28 A survey of RST invariant image watermarking algorithms
Dong Zheng, Yan Liu, Jiying Zhao, Abdulmotaleb El Saddik
July 2007 **ACM Computing Surveys (CSUR)**, Volume 39 Issue 2
Publisher: ACM Press
Full text available: pdf(5.53 MB) Additional Information: full citation, abstract, references, index terms

In this article, we review the algorithms for rotation, scaling and translation (RST) invariant image watermarking. There are mainly two categories of RST invariant image watermarking algorithms. One is to rectify the RST transformed image before conducting watermark detection. Another is to embed and detect watermark in an RST invariant or semi-invariant domain. In order to help readers understand, we first introduce the fundamental theories and techniques used in the existing RST invariant ...

Keywords: Digital image watermarking, Fourier-Mellin transform, ILPM, LPM, RST invariant, Radon transform, feature points, moments, template matching

29 Systems: Towards multilateral secure digital rights distribution infrastructures
André Adelsbach, Markus Rohe, Ahmad-Reza Sadeghi
November 2005 **Proceedings of the 5th ACM workshop on Digital rights management DRM '05**
Publisher: ACM Press
Full text available: pdf(332.27 KB) Additional Information: full citation, abstract, references, index terms

Digital Rights Management (DRM) systems and applications appear to increasingly attract the interest of e-commerce business developers. DRM systems aim at secure distribution of digital content and commonly comprise a huge variety of different technologies. Current DRM systems focus mainly on right-holder's security needs and commonly neglect those of consumers. In particular, these systems even lack reliable means for users to verify that they purchase usage-rights on works (licenses) from the ...

Keywords: DRM, authorship, copyrights, digital distribution chains, licensing and transfer of rights, right ownership, usage rights

30 HyperNews: a MEDIA application for the commercialization of an electronic newspaper
Jean-Henry Morin, Dimitri Konstantas
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**
Publisher: ACM Press
Full text available: pdf(2.74 MB) Additional Information: full citation, references, index terms

Keywords: agents, copyright protection, electronic publishing

31 Software watermarking: models and dynamic embeddings
Christian Collberg, Clark Thomborson
January 1999 **Proceedings of the 26th ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '99**
Publisher: ACM Press
Full text available: pdf(2.19 MB) Additional Information: full citation, references, citings, index terms

32 Technical session 10: watermarking and multi-media processing: Fingerprinting and forensic analysis of multimedia

Daniel Schonberg, Darko Kirovski

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia MULTIMEDIA '04**

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms

One of the prime reasons movie and music studios have ignored the Internet for open-networked multimedia content delivery, has been the lack of a technology that can support a secure digital rights management (DRM) system on a general purpose computer. The difficulty of building an effective multimedia DRM stems from the fact that traditional cryptograic primitives such as encryption or scrambling do not protect audio or video signals once they are played in plain-text. This fact, commonly re ...

Keywords: audio, collusion attack, fingerprinting, forensic analysis, video

33 Performance factors analysis of a wavelet-based watermarking method

Chaw-Seng Woo, Jiang Du, Binh Pham

January 2005 **Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44 ACSW Frontiers '05**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(512.86 KB) Additional Information: full citation, abstract, references, index terms

The essential performance metrics of a robust watermark include robustness, imperceptibility, watermark capacity and security. In addition, computational cost is important for practicality. Wavelet-based image watermarking methods exploit the frequency information and spatial information of the transformed data in multiple resolutions to gain robustness. Although the Human Visual System (HVS) model offers imperceptibility in wavelet-based watermarking, it suffers high computational cost. In this ...

Keywords: discrete wavelet transform (DWT), embedding technique, human visual system (HVS), robust image watermark

34 Shape retrieval and watermarking: Shape intrinsic fingerprints for free-form object matching

K. H. Ko, T. Maekawa, N. M. Patrikalakis, H. Masuda, F.-E. Wolter

June 2003 **Proceedings of the eighth ACM symposium on Solid modeling and applications SM '03**

Publisher: ACM Press

Full text available: pdf(687.06 KB) Additional Information: full citation, abstract, references, index terms

This paper presents matching and similarity evaluation methods between two NURBS surfaces, and their application to copyright protection of digital data representing solids or NURBS surfaces. Two methods are employed to match objects: the moment and the curvature methods. The moment method uses integral properties, i.e. the volume, the principal moments of inertia and directions, to find the rigid body transformation as well as the scaling factor. The curvature method is based on the Gaussian an ...

Keywords: NURBS, fingerprints, localization, matching, partial matching, registration, similarity, umbilics

35 Digital rights management for content distribution

Qiong Liu, Reihaneh Safavi-Naini, Nicholas Paul Sheppard

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(224.63 KB) Additional Information: full citation, abstract, references, citings, index terms

Transferring the traditional business model for selling digital goods linked to physical media to the online world leads to the need for a system to protect digital intellectual property. Digital Rights Management (DRM) is a system to protect high-value digital assets and control the distribution and usage of those digital assets. This paper presents a review of the current state of DRM, focusing on security technologies, underlying legal implications and main obstacles to DRM deployment with the ...

Keywords: DRM, digital content

36 Watermarking algorithms: Exploiting self-similarities to defeat digital watermarking systems: a case study on still images

Gwenaël Doërr, Jean-Luc Dugelay, Lucas Grangé
September 2004 **Proceedings of the 2004 workshop on Multimedia and security MM&Sec '04**
Publisher: ACM Press
Full text available: pdf(1.27 MB) Additional Information: full citation, abstract, references, index terms

Unauthorized digital copying is a major concern for multi-media content providers. Since copyright owners lose control over content distribution as soon as data is decrypted or unscrambled, digital watermarking has been introduced as a complementary protection technology. In an effort to anticipate hostile behaviors of adversaries, the research community is constantly introducing novel attacks to benchmark watermarking systems. In this paper, a generic block replacement attack will be presented. ...

Keywords: block replacement attack, intra-signal collusion, self-similarities

37 Behavioral synthesis techniques for intellectual property protection

Farinaz Koushanfar, Inki Hong, Miodrag Potkonjak
July 2005 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 10 Issue 3
Publisher: ACM Press
Full text available: pdf(439.81 KB) Additional Information: full citation, abstract, references, index terms

We introduce dynamic watermarking techniques for protecting the value of intellectual property of CAD and compilation tools and reusable design components. The essence of the new approach is the addition of a set of design and timing constraints which encodes the author's signature. The constraints are selected in such a way that they result in a minimal hardware overhead while embedding a unique signature that is difficult to remove and forge. Techniques are applicable in conjunction with an ar ...

Keywords: Intellectual property protection, behavioral synthesis, watermarking

38 Design, implementation, and performance measurement of a native-mode ATM transport layer (extended version)

R. Ahuja, S. Keshav, H. Saran
August 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 4
Publisher: IEEE Press
Full text available: pdf(1.66 MB) Additional Information: full citation, references, citings, index terms

Keywords: AAL 5, asynchronous transfer mode, native-mode ATM, personal computer, transport layer

39 Minos: Architectural support for protecting control data

Jedidiah R. Crandall, S. Felix Wu, Frederic T. Chong
December 2006 **ACM Transactions on Architecture and Code Optimization (TACO)**, Volume 3 Issue 4
Publisher: ACM Press
Full text available: pdf(531.41 KB) Additional Information: full citation, abstract, references, index terms

We present Minos, a microarchitecture that implements Biba's low water-mark integrity policy on individual words of data. Minos stops attacks that corrupt control data to hijack program control flow, but is orthogonal to the memory model. Control data is any data that is loaded into the program counter on control-flow transfer, or any data used to calculate such data. The key is that Minos tracks the integrity of all data, but protects control flow by checking this integrity when a program uses ...

Keywords: Control data, buffer overflow, worms

40 Digital watermarking approaches II: Watermarking techniques using the Drawing Exchange Format (DXF) file

Hwan II Kang, Kab II Kim, Seung-Soo Han
October 2001 **Proceedings of the 2001 workshop on Multimedia and security: new challenges MM&Sec '01**
Publisher: ACM Press
Full text available: pdf(294.19 KB) Additional Information: full citation, abstract, references, index terms

This paper presents an algorithm of the watermark insertion and extraction on the vector image. Most parts of the vector image consist of the array of the coordinate values. The vector watermarking method by Sakamoto et al [1] uses the mask within which all the coordinate values of all the vertices are changed depending on the value of the watermark. The proposed algorithm is the change of the vector image file instead of the change of the coordinate values on the vector image. We use the Dra ...

Keywords: Drawing Exchange Format File (DXFF), vector image, watermarking

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